
UUU UUU EEEEEEEEEEEEEEE TTTTTTTTTTTTTTT PPPPPPPPPPPP SSSSSSSSSSS YYY YYY
UUU UUU EEEEEEEEEEEEEEE TTTTTTTTTTTTTTT PPPPPPPPPPPP SSSSSSSSSSS YYY YYY
UUU UUU EEEEEEEEEEEEEEE TTTTTTTTTTTTTTT PPPPPPPPPPPP SSSSSSSSSSS YYY YYY
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UUUUUUUUUUUUUUU EEEEEEEEEEEEEEE TTT PPP SSSSSSSSSSS YYY
UUUUUUUUUUUUUUU EEEEEEEEEEEEEEE TTT PPP SSSSSSSSSSS YYY

```
  SSSSSSSS    AAAAAA    TTTTTTTTTT    SSSSSSSS    SSSSSSSS  FFFFFFFFFF    000000    44    44
  SSSSSSSS    AAAAAA    TTTTTTTTTT    SSSSSSSS    SSSSSSSS  FFFFFFFFFF    000000    44    44
SS           AA      AA      TT      SS          SS          FF           00      00  44    44
SS           AA      AA      TT      SS          SS          FF           00      00  44    44
SS           AA      AA      TT      SS          SS          FF           00    0000  44    44
SS           AA      AA      TT      SS          SS          FF           00    0000  44    44
  SSSSSS     AA      AA      TT        SSSSSS      SSSSSS    FFFFFFFF     00  00  00  4444444444
  SSSSSS     AA      AA      TT        SSSSSS      SSSSSS    FFFFFFFF     00  00  00  4444444444
        SS   AAAAAAAAAA      TT              SS          SS  FF           0000    00        44
        SS   AAAAAAAAAA      TT              SS          SS  FF           0000    00        44
        SS   AA      AA      TT              SS          SS  FF           00      00        44      ....
      SS     AA      AA      TT              SS          SS  FF           00      00        44      ....
SSSSSSSS     AA      AA      TT      SSSSSSSS    SSSSSSSS  FF             000000            44      ....
SSSSSSSS     AA      AA      TT      SSSSSSSS    SSSSSSSS  FF             000000            44      ....

LL             IIIIII      SSSSSSSS
LL             IIIIII      SSSSSSSS
LL               II      SS
LL               II      SS
LL               II      SS
LL               II      SS
LL               II        SSSSSS
LL               II        SSSSSS
LL               II              SS
LL               II              SS
LL               II              SS
LL               II              SS
LLLLLLLLLL     IIIIII    SSSSSSSS
LLLLLLLLLL     IIIIII    SSSSSSSS
```

Table of contents

```
0000     1          .TITLE  SATSSF04 - SATS SYSTEM SERVICE TESTS  (FAILING S.C.)
0000     2          .IDENT  'V04-000'
0000     3
0000     4  ;
0000     5  ;*****************************************************************************
0000     6  ;*                                                                           *
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0000    24  ;*                                                                           *
0000    25  ;*                                                                           *
0000    26  ;*****************************************************************************
0000    27  ;
0000    28
0000    29  ;++
0000    30  ; FACILITY:     SATS SYSTEM SERVICE TESTS
0000    31  ;
0000    32  ; ABSTRACT:     THE SATSSF04 MODULE TESTS THE EXECUTION OF CERTAIN
0000    33  ; VMS SYSTEM SERVICES, INVOKED IN SUCH A WAY AS TO EXPECT FAILING
0000    34  ; STATUS CODES. THE SYSTEM SERVICES TESTED AND THE STATUS CODES
0000    35  ; EXPECTED ARE SUMMARIZED AS ARGUMENTS TO THE TESTSERV MACROS
0000    36  ; WHICH APPEAR NEAR THE END OF THIS LISTING. SUCCESSFUL STATUS
0000    37  ; CODES ARE TESTED IN OTHER MODULES.
0000    38  ;
0000    39  ;
0000    40  ; ENVIRONMENT:  USER MODE IMAGE; NEEDS CMKRNL PRIVILEGE,
0000    41  ;                DYNAMICALLY ACQUIRES OTHER PRIVILEGES, AS NEEDED.
0000    42  ;
0000    43  ; AUTHOR: THOMAS L. CAFARELLA,          CREATION DATE: MMM, 1978
0000    44  ;         PAUL D. FAY (DISPSERV & TESTSERV MACROS)
0000    45  ;
0000    46  ; MODIFIED BY:
0000    47  ;
0000    48  ;       , : VERSION
0000    49  ; 01    -
0000    50  ;--
```

```
                     0000     52          .SBTTL  DECLARATIONS
                     0000     53 ;
                     0000     54 ; INCLUDE FILES:
                     0000     55 ;
                     0000     56          $PRVDEF                                 ; SYMBOL DEFS FOR PRIVILEGES
                     0000     57          $UETPDEF                                ; UETP MSG CODE DEFINITIONS
                     0000     58          $SHR_MESSAGES UETP,116,<<TEXT,INFO>>
                     0000     59                                                  ; DEFINE UETP$_TEXT
                     0000     60                                                  ; GET RID OF MACRO DEFINITIONS
                     0000     61 ;
                     0000     62 ; MACROS:
                     0000     63 ;
                     0000     64 ;
                     0000     65 ; EQUATED SYMBOLS:
                     0000     66 ;
00000000             0000     67 WARNING          = 0                             ; WARNING SEVERITY VALUE FOR MSGS
00000001             0000     68 SUCCESS          = 1                             ; SUCCESS SEVERITY VALUE FOR MSGS
00000002             0000     69 ERROR            = 2                             ; ERROR SEVERITY VALUE FOR MSGS
00000003             0000     70 INFO             = 3                             ; INFORMATIONAL SEV VALUE FOR MSGS
00000004             0000     71 SEVERE           = 4                             ; SEVERE (FATAL) SEV VALUE FOR MSGS
00000000             0000     72 TCG_NO           =  0                            ; INITIALIZE TEST CASE GROUP NUMBER
00000000             0000     73 GRP_TOTAL        =  0                            ; INITIALIZE TEST CASE GROUP TOTAL
00007FFF             0000     74 R0_THRU_SP       = ^M<R0,R1,R2,R3,R4,R5,R6,R7,R8,R9,R10,R11,AP,FP,SP>
00000000             0000     75 ASTADR_STM       = 0                             ; ASTADR ARG 4 SETIMR (INDIC NO AST)
00000000             0000     76 DAYTIM_STM20     = 0                             ; DAYTIM ARG FOR SETIMR (LOCATION 0)
00000001             0000     77 TIMADR_GTT10     = 1                             ; TIMADR ARG FOR GETTIM (LOCATION 1)
00000001             0000     78 TIMBUF_NMT10     = 1                             ; TIMBUF ARG FOR NUMTIM (LOCATION 1)
00000001             0000     79 TIMADR_NMT20     = 1                             ; TIMADR ARG FOR NUMTIM (LOCATION 1)
                     0000     80 ;
                     0000     81 ; ****** THE FOLLOWING ASSIGNMENTS (IN PHD, PCB, STS) ARE BEING MADE
                     0000     82 ; ****** WITHOUT REFERENCE TO $PHDDEF, $PCBDEF, $STSDEF BECAUSE OF
                     0000     83 ; ****** SYMBOL TABLE OVERFLOW. FIX THIS WHEN MORE TABLE SPACE AVAILABLE.
                     0000     84 ;
00000000             0000     85 PHD$Q_PRIVMSK    = 0                             ; PRIV MASK OFFSET INTO PHD
00000020             0000     86 PCB$L_UIC        = ^X20                          ; UIC OFFSET INTO PCB
0000001C             0000     87 STS$V_INHIB_MSG = ^X1C                           ; INHIBIT_MSG BIT NUMBER IN MSG CODE
                     0000     88 ;
                     0000     89 ; OWN STORAGE:
                     0000     90 ;
```

```
                    00000000     92          .PSECT  RODATA,RD,NOWRT,NOEXE,LONG
                  BFFC  0000     93 REG_COMP_MASK:  .WORD   ^M<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11,AP,FP> ! ^X8000 -
                        0002     94                                              ; REG COMPARE MASK (HIGH-ORDER ...
                        0002     95                                              ; ... BIT MUST BE ON
                        0002     96 ERR_MSG_FAOCTL: STRING  I,<!/!AC!1ZB!1ZB: REGISTER !2UW CONTENTS ALTERED>, -
                        0002     97                         <;  BEFORE SERVICE CALL: !8XL   AFTER SERVICE CALL: !8XL>
                        006E     98 TEST_MOD_NAME:  STRING  C,<SATSSF04>     ; TEST MODULE NAME
                        0077     99 TEST_MOD_BEG:   STRING  C,<begun>        ; DISPOSITION FIELD OF TEST MOD MSG
                        007D    100 TEST_MOD_SUCC:  STRING  C,<successful>   ; DISPOSITION FIELD OF TEST MOD MSG
                        0088    101 TEST_MOD_FAIL:  STRING  C,<failed>       ; DISPOSITION FIELD OF TEST MOD MSG
                        008F    102 TEST_MOD_NAME_D: STRING I,<SATSSF04>     ; TEST MODULE NAME DESCRIPTOR
                        009F    103 TTNAME:         STRING  I,<TT>           ; TERMINAL LOGICAL NAME
00000000'00000000'      00A9    104 INADR:          .LONG   NOACCESS,NOACCESS ; PAGE ADDRESS OF NOACCESS PSECT
          00000000'     00B1    105 PROT:           .LONG   PRT$C_NA         ; PROTECTION CODE FOR NOACCESS PSECT
FFFFFFFF  FFFFFFFF      00B5    106 ONES:           .LONG   -1,-1            ; A QUADWORD OF 1-BITS
          0000002B      00BD    107 EFN_STM:        .LONG   43               ; EFN ARGUMENT FOR SETIMR
          FFFFFFFF      00C1    108 EFN_STM10:      .LONG   ^XFFFFFFFF       ; EFN ARGUMENT FOR SETIMR
00000000  00000000      00C5    109 DAYTIM_STM:     .LONG   0,0              ; DAYTIM ARGUMENT FOR SETIMR
          00000000      00CD    110 REQIDT_STM:     .LONG   0                ; REQIDT ARGUMENT FOR SETIMR
          000000D9      00D1    111 TIMADR_GTT11:   .BLKQ   1                ; TIMADR ARGUMENT FOR GETTIM
          000000E7      00D9    112 TIMBUF_NMT11:   .BLKW   7                ; TIMBUF ARGUMENT FOR NUMTIM
00000000  00000000      00E7    113 TIMADR_NMT:     .LONG   0,0              ; TIMADR ARGUMENT FOR NUMTIM
FFE09C4A  FFFFFFFF      00EF    114 TIMADR_NMT23:   .LONG   -1,-<60*24*10000>/7
                        00F7    115                                          ; TIMADR ARGUMENT FOR NUMTIM
                        00F7    116                                          ; (10,000 DAYS IN ...
                        00F7    117                                          ; ... 100-NANOSECOND UNITS)
00000000  00000000      00F7    118 TIMADR_ATM:     .LONG   0,0              ; TIMADR ARGUMENT FOR ASCTIM
FFE09C4A  FFFFFFFF      00FF    119 TIMADR_ATM30:   .LONG   -1,-<60*24*10000>/7
                        0107    120                                          ; TIMADR ARGUMENT FOR ASCTIM
                        0107    121                                          ; (10,000 DAYS IN ...
                        0107    122                                          ; ... 100-NANOSECOND UNITS)
          00000001      0107    123 CVTFLG_ATM:     .LONG 1                  ; CVTFLG ARGUMENT FOR ASCTIM
                        0108    124 TIMBUF_BTM:     STRING  I,<25-DEC-1973  21:46:00.00>
                        0128    125                                          ; TIMBUF ARGUMENT FOR BINTIM
                        0128    126 TIMBUF_BTM10:   STRING  I,<25-DEC-0001  21:46:00.00>
                        0148    127                                          ; TIMBUF ARGUMENT FOR BINTIM
                        0148    128 TIMBUF_BTM11:   STRING  I,<25-DEC-1973  21:61:00.00>
                        0168    129                                          ; TIMBUF ARGUMENT FOR BINTIM
                        0168    130 TIMBUF_BTM12:   STRING  I,<29-FEB-1973  09:14:21.33>
                        0188    131                                          ; TIMBUF ARGUMENT FOR BINTIM
                        0188    132 TIMBUF_BTM13:   STRING  I,<0347  25:10:20.31>
                        01A4    133                                          ; TIMBUF ARGUMENT FOR BINTIM
```

```
                                C 13
00000000     135          .PSECT  RWDATA,RD,WRT,NOEXE
00000004 0000  136 TPID:          .BLKL   1               ; PROCESS ID FOR THIS PROCESS
00000008 0004  137 CURRENT_TC:    .BLKL   1               ; PTR TO CURRENT TEST CASE
00000044 0008  138 REG_SAVE_AREA: .BLKL   15              ; SAVE AREA FOR ALL REGS (SANS PC)
007480D9 0044  139 MOD_MSG_CODE:  .LONG   UETP$_SATSMS    ; TEST MODULE MSG CODE FOR PUTMSG
0000004C 0048  140 CLOB_REG_NO:   .BLKL   1               ; CLOBBERED REG NO (FOR FAO ERR MSG)
00000050 004C  141 REG_BEFORE_SS: .BLKL   1               ; REG CONTENTS BEFORE S.S.
         0050  142                                        ; ... (FOR FAO ERROR MSG)
00000054 0050  143 REG_AFTER_SS:  .BLKL   1               ; REG CONTENTS AFTER S.S.
         0054  144                                        ; ... (FOR FAO ERROR MSG)
         0054  145 $$TSTN$$:       STRING  C,<  SF   >     ; ASCII PORTION OF TEST CASE NAME
0000006E' 005C 146 TMN_ADDR:      .ADDRESS TEST_MOD_NAME  ; ADDR OF TEST MOD NAME FOR FAO
00000077' 0060 147 TMD_ADDR:      .ADDRESS TEST_MOD_BEG   ; ADDR OF T.M. DISP FIELD FOR FAO
00000068 0064  148 TS_EP:         .BLKL   1               ; ENTRY PNT FOR CURR TESTSERV MACRO
00000070 0068  149 RETADR:        .BLKL   2               ; RETURN LONGWORDS FOR SETPRT
00000071 0070  150 PRVPRT:        .BLKB   1               ; PROT RETURN BYTE FOR SETPRT
00000079 0071  151 PRIVMASK:      .BLKQ   1               ; ADDR OF PRIVILEGE MASK (IN PHD)
0000007D 0079  152 CHM_CONT:      .BLKL   1               ; CHANGE MODE CONTINUE ADDRESS
00000091 007D  153 REGS:          .BLKL   5               ; AREA FOR COND INDEX REGS (R2-R6)
00000095 0091  154 EFN_STM11:     .BLKL 1                 ; EFN ARGUMENT FOR SETIMR
00000099 0095  155 EFN_STM12:     .BLKL 1                 ; EFN ARGUMENT FOR SETIMR
0000009D 0099  156 EFN_STM13:     .BLKL 1                 ; EFN ARGUMENT FOR SETIMR
000000A1 009D  157 EFN_STM14:     .BLKL 1                 ; EFN ARGUMENT FOR SETIMR
000000A9 00A1  158 TIMADR_GTT:    .BLKQ   1               ; TIMADR ARGUMENT FOR GETTIM
000000B7 00A9  159 TIMBUF_NMT:    .BLKW   7               ; TIMBUF ARGUMENT FOR NUMTIM
000000B9 00B7  160 TIMLEN_ATM:    .BLKW   1               ; TIMLEN ARGUMENT FOR ASCTIM
         00B9  161 TIMBUF_ATM:    STRING  0,24            ; TIMBUF ARGUMENT FOR ASCTIM
000000E1 00D9  162 TIMADR_BTM:    .BLKQ   1               ; TIMADR ARGUMENT FOR BINTIM
```

```
                                        .PSECT  SATS_ACCVIO_1,RD,WRT,NOEXE,PAGE
00000200  0000  165 EMPTY:              .BLKB   512     ; RESERVE A PAGE OF SPACE
          0200  166 ;
          0200  167 ; +
          0200  168 ; ************************************************************************
          0200  169 ; *                                                                      *
          0200  170 ; *     THE ORDER OF STATEMENTS IN THIS PSECT IS CRITICAL.                *
          0200  171 ; *     DO NOT RE-ARRANGE THE VARIABLES. CONSULT SATS                     *
          0200  172 ; *     FUNCTIONAL SPECIFICATION FOR A DESCRIPTION OF THE USE             *
          0200  173 ; *     OF THE EMPTY PSECT (AND ITS COMPANION PSECT, NOACCESS).           *
          0200  174 ; *                                                                      *
          0200  175 ; ************************************************************************
          0200  176 ; -
          0200  177 ;
000001FF  0200  178 DAYTIM_STM22    = . - 1         ; DAYTIM ARG FOR SETIMR (LAST BYTE IN PAGE)
000001FF  0200  179 TIMADR_GTT12    = . - 1         ; TIMADR ARG FOR GETTIM (LAST BYTE IN PAGE)
000001FF  0200  180 TIMBUF_NMT12    = . - 1         ; TIMBUF ARG FOR NUMTIM (LAST BYTE IN PAGE)
000001FF  0200  181 TIMADR_NMT22    = . - 1         ; TIMADR ARG FOR NUMTIM (LAST BYTE IN PAGE)
          0200  182 ;
          0200  183 ;
          0200  184 ;
          0200  185 ;
                                        .PSECT  SATS_ACCVIO_2,RD,WRT,NOEXE,PAGE
00000200  0000  187 NOACCESS:           .BLKB   512     ; RESERVE A PAGE OF SPACE
00000000  0200  188                     . = . - 512     ; RETURN LOC CTR TO BEGINNING OF PSECT
00000000' 0000  189                     .ADDRESS EMPTY  ; ADDRESS OF ACCESSIBLE STRING
00000000' 0004  190                     .ADDRESS EMPTY/^X100 ; ADDRESS OF ACCESSIBLE STRING
          0008  191 ;+
          0008  192 ; *** NOTE -- DO NOT CHANGE LOCATION OR SEQUENCE OF ABOVE STATEMENTS!
          0008  193 ; ***         THIS PSECT (NOACCESS) MUST APPEAR IN MEMORY IMMEDIATELY
          0008  194 ; ***         FOLLOWING THE EMPTY PSECT. PSECT NAMES AND OPTIONS WILL BE
          0008  195 ; ***         CHOSEN TO FORCE THE DESIRED PSECT ORDERING.
          0008  196 ;-
00000010  0008  197 DAYTIM_STM21:   .BLKQ   1       ; DAYTIM ARGUMENT FOR SETIMR
00000018  0010  198 TIMADR_NMT21:   .BLKQ   1       ; TIMADR ARGUMENT FOR NUMTIM
          0018  199 ;
          0018  200 ;
          0018  201 ;
          0018  202 ;
                                  .PSECT  SATSSF04,RD,WRT,EXE,LONG
```

```
0000   205          .SBTTL  SATSSF04
0000   206 ;++
0000   207 ; FUNCTIONAL DESCRIPTION:
0000   208 ;
0000   209 ;                   AFTER PERFORMING SOME INITIAL HOUSEKEEPING, SUCH AS
0000   210 ; PRINTING THE MODULE BEGIN MESSAGE AND ACQUIRING ALL PRIVILEGES,
0000   211 ; THE SATSSF04 ROUTINE EXECUTES THE TEST_SERV_EXEC MACRO TO RUN
0000   212 ; ALL TEST CASES. WHEN THE MACRO COMPLETES ITS EXECUTION, SATSSF04
0000   213 ; PRINTS A TEST MODULE SUCCESS OR FAIL MESSAGE AND EXITS TO THE
0000   214 ; OPERATING SYSTEM. TEST_SERV_EXEC CALLS THE TC_CONTROL/TESTSERV
0000   215 ; CO-ROUTINE PAIR ONCE PER TEST CASE GROUP TO EXECUTE ALL TEST
0000   216 ; CASES IN THAT GROUP. EACH TEST CASE GROUP IS DEFINED BY BOUNDING
0000   217 ; ITS TEST CASES WITH A TC_GROUP MACRO BEFORE THE FIRST TEST CASE
0000   218 ; AND A TCEND MACRO AFTER THE LAST ONE. THE TEST CASES THEMSELVES
0000   219 ; ARE DEFINED WITHIN THESE BOUNDS BY PRECEDING EACH WITH A
0000   220 ; NEXT_TEST_CASE MACRO. TC_CONTROL/TESTSERV EXECUTES THE CODE
0000   221 ; FOLLOWING EACH NEXT_TEST_CASE MACRO IMMEDIATELY BEFORE ISSUING
0000   222 ; THE SYSTEM SERVICE AS REQUESTED IN THE TESTSERV MACRO. TC_CONTROL/
0000   223 ; TESTSERV ALSO CHECKS THE RESULTS OF THE SERVICE WITH RESPECT
0000   224 ; TO ITS EXPECTED STATUS CODE AND PRINTS ANY REQUIRED FAILURE
0000   225 ; MESSAGES FOR THE TEST CASE. THE CODE APPEARING AFTER EACH
0000   226 ; NEXT_TEST_CASE MACRO IS MERELY TO SET UP CONDITIONS REQUIRED
0000   227 ; FOR THE SYSTEM SERVICE AND TO CLEAN UP ANY RESOURCES ACQUIRED
0000   228 ; BY THE PREVIOUS TEST CASE.
0000   229 ;
0000   230 ; CALLING SEQUENCE:
0000   231 ;
0000   232 ;       $ RUN SATSSF04  ...  (DCL COMMAND)
0000   233 ;
0000   234 ; INPUT PARAMETERS:
0000   235 ;
0000   236 ;       NONE
0000   237 ;
0000   238 ; IMPLICIT INPUTS:
0000   239 ;
0000   240 ;       NONE
0000   241 ;
0000   242 ; OUTPUT PARAMETERS:
0000   243 ;
0000   244 ;       NONE
0000   245 ;
0000   246 ; IMPLICIT OUTPUTS:
0000   247 ;
0000   248 ;       MESSAGES TO SYS$OUTPUT ARE THE ONLY OUTPUT FROM SATSSF04.
0000   249 ;       THEY ARE OF THE FORM:
0000   250 ;
0000   251 ;               %UETP-S-SATSMS, TEST MODULE SATSSF04 BEGUN ... (BEGIN MSG)
0000   252 ;               %UETP-S-SATSMS, TEST MODULE SATSSF04 SUCCESSFUL ... (END MSG)
0000   253 ;               %UETP-E-SATSMS, TEST MODULE SATSSF04 FAILED ... (END MSG)
0000   254 ;               %UETP-I-TEXT, ... (VARIABLE INFORMATION ABOUT A TEST MODULE FAILURE)
0000   255 ;
0000   256 ; COMPLETION CODES:
0000   257 ;
0000   258 ;       THE SATSSF04 ROUTINE TERMINATES WITH A $EXIT TO THE
0000   259 ;       OPERATING SYSTEM WITH A STATUS CODE DEFINED BY UETP$_SATSMS.
0000   260 ;
0000   261 ; SIDE EFFECTS:
```

```
                        0000   262 ;
                        0000   263 ;       NONE
                        0000   264 ;
                        0000   265 ;--
                        0000   266
                        0000   267
                        0000   268
                        0000   269 SATSSF04:
                  0FFC  0000   270         .WORD   ^M<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11>
                        0002   271                                         ; ENTRY MASK
                        0002   272         $WAKE_S  TPID                   ; GET PID OF THIS PROCESS
                        0011   273         $HIBER_S                        ; UNDO WAKE
                        0018   274         $SETPRN_S TEST_MOD_NAME_D       ; SET PROCESS NAME
                    0EAF  30   0025   275         BSBW    MOD_MSG_PRINT       ; PRINT TEST MODULE BEGIN MSG
 00000060'EF   0000007D'EF  DE   0028   276         MOVAL   TEST_MOD_SUCC_TMD_ADDR ; ASSUME END MSG WILL SHOW SUCCESS
00000044'EF   03   00   01  F0   0033   277         INSV    #SUCCESS,#0,#3,MOD_MSG_CODE ; ADJUST STATUS CODE FOR SUCCESS
                        003C   278         MODE    TO,10$,KRNL,NOREGS      ; KERNEL MODE TO ACCESS PHD
          59   00000000'9F  D0   0059   279         MOVL    @#CTL$GL_PHD,R9     ; GET PROCESS HEADER ADDRESS
          00000071'EF   69  DE   0060   280         MOVAL   PHD$Q_PRIVMSK(R9),PRIVMASK ; GET PRIV MASK ADDRESS
                        0067   281         MODE    FROM,TO$                ; GET BACK TO USER MODE
                        0068   282         PRIV    ADD,ALL                 ; GET ALL PRIVILEGES
                        0088   283         DISPSERV                        ; SET UP DISPLAY INFO FOR TESTSERV
                        021D   284         $SETPRT_S INADR=INADR, RETADR=RETADR, -
                        021D   285                   PROT=PROT, PRVPRT=PRVPRT
                        023E   286                                         ; SET NOACCESS PSECT ...
                        023E   287                                         ; ... FOR NO USER ACCESS
                    0B29  31   023E   288         BRW     EXECUTE                 ; GO EXECUTE ALL TEST CASES
                        0241   289         TC_GROUP        STM,1,TS1
                        0268   290         NEXT_TEST_CASE  SFSTM10
```

```
0268   291 ;
0268   292 ;++
0268   293 ; ************************************************************
0268   294 ; *
0268   295 ; *  TEST CASE NAME:              SFSTM10
0268   296 ; *
0268   297 ; *  SYSTEM SERVICE:              SETIMR
0268   298 ; *
0268   299 ; *  ARGUMENT UNDER TEST:         EFN_STM10
0268   300 ; *
0268   301 ; *  INPUT CONDITIONS:
0268   302 ; *     ILLEGAL EVENT FLAG NUMBER
0268   303 ; *
0268   304 ; *  EXPECTED RESULTS:
0268   305 ; *     1) SYSTEM STATUS CODE:  ILLEFC
0268   306 ; *     2) REGISTERS R2 THROUGH FP UNCHANGED
0268   307 ; *
0268   308 ; ************************************************************
0268   309 ;--
0268   310 ;
0268   311 ;
0268   312         NEXT_TEST_CASE  SFSTM11
```

```
                                H 13
                     0274   313 ;
                     0274   314 ;++
                     0274   315 ; ************************************************************
                     0274   316 ; *
                     0274   317 ; *  TEST CASE NAME:            SFSTM11
                     0274   318 ; *
                     0274   319 ; *  SYSTEM SERVICE:            SETIMR
                     0274   320 ; *
                     0274   321 ; *  ARGUMENT UNDER TEST:       EFN_STM11
                     0274   322 ; *
                     0274   323 ; *  INPUT CONDITIONS:
                     0274   324 ; *     ILLEGAL EVENT FLAG NUMBER
                     0274   325 ; *
                     0274   326 ; *  EXPECTED RESULTS:
                     0274   327 ; *     1) SYSTEM STATUS CODE:  ILLEFC
                     0274   328 ; *     2) REGISTERS R2 THROUGH FP UNCHANGED
                     0274   329 ; *
                     0274   330 ; ************************************************************
                     0274   331 ;--
                     0274   332 ;
00000091'EF   FF 8F   98 0274   333         CVTBL   #-1,EFN_STM11   ; ILLEGAL EVENT FLAG NUMBER
                     027C   334 ;
                     027C   335         NEXT_TEST_CASE  SFSTM12
```

```
                                1 13
                     0288   336 ;
                     0288   337 ;++
                     0288   338 ; ************************************************************
                     0288   339 ; *
                     0288   340 ; *  TEST CASE NAME:              SFSTM12
                     0288   341 ; *
                     0288   342 ; *  SYSTEM SERVICE:              SETIMR
                     0288   343 ; *
                     0288   344 ; *  ARGUMENT UNDER TEST:         EFN_STM12
                     0288   345 ; *
                     0288   346 ; *  INPUT CONDITIONS:
                     0288   347 ; *     ILLEGAL EVENT FLAG NUMBER
                     0288   348 ; *
                     0288   349 ; *  EXPECTED RESULTS:
                     0288   350 ; *     1) SYSTEM STATUS CODE:  ILLEFC
                     0288   351 ; *     2) REGISTERS R2 THROUGH FP UNCHANGED
                     0288   352 ; *
                     0288   353 ; ************************************************************
                     0288   354 ;--
                     0288   355 ;
00000095'EF   80 8F   9A 0288   356         MOVZBL  #128,EFN_STM12  ; ILLEGAL EVENT FLAG NUMBER
                     0290   357 ;
                     0290   358         NEXT_TEST_CASE  SFSTM13
```

```
                     029C    359 ;
                     029C    360 ;++
                     029C    361 ; ********************************************************
                     029C    362 ; *
                     029C    363 ; *  TEST CASE NAME:              SFSTM13
                     029C    364 ; *
                     029C    365 ; *  SYSTEM SERVICE:              SETIMR
                     029C    366 ; *
                     029C    367 ; *  ARGUMENT UNDER TEST:         EFN_STM13
                     029C    368 ; *
                     029C    369 ; *  INPUT CONDITIONS:
                     029C    370 ; *     ILLEGAL EVENT FLAG NUMBER
                     029C    371 ; *
                     029C    372 ; *  EXPECTED RESULTS:
                     029C    373 ; *     1) SYSTEM STATUS CODE:  ILLEFC
                     029C    374 ; *     2) REGISTERS R2 THROUGH FP UNCHANGED
                     029C    375 ; *
                     029C    376 ; ********************************************************
                     029C    377 ;--
                     029C    378 ;
00000099'EF  000000FF 8F  D0 029C    379         MOVL    #255,EFN_STM13  ; ILLEGAL EVENT FLAG NUMBER
                     02A7    380 ;
                     02A7    381         NEXT_TEST_CASE  SFSTM14
```

```
                                                K 13
                     02B3    382 ;
                     02B3    383 ;++
                     02B3    384 ; ********************************************************
                     02B3    385 ; *
                     02B3    386 ; *  TEST CASE NAME:              SFSTM14
                     02B3    387 ; *
                     02B3    388 ; *  SYSTEM SERVICE:              SETIMR
                     02B3    389 ; *
                     02B3    390 ; *  ARGUMENT UNDER TEST:         EFN_STM14
                     02B3    391 ; *
                     02B3    392 ; *  INPUT CONDITIONS:
                     02B3    393 ; *     PROCESS NEVER ASSOCIATED WITH SPECIFIED CLUSTER (3).
                     02B3    394 ; *
                     02B3    395 ; *  EXPECTED RESULTS:
                     02B3    396 ; *     1) SYSTEM STATUS CODE:  UNASEFC
                     02B3    397 ; *     2) REGISTERS R2 THROUGH FP UNCHANGED
                     02B3    398 ; *
                     02B3    399 ; ********************************************************
                     02B3    400 ;--
                     02B3    401 ;
0000009D'EF   64 8F  9A 02B3    402         MOVZBL  #100,EFN_STM14  ; EVENT FLAG IN UNASSOCIATED CLUSTER
                     02BB    403 ;
                     02BB    404         NEXT_TEST_CASE  SFSTM20
```

```
02C7   405 ;
02C7   406 ;++
02C7   407 ; ********************************************************
02C7   408 ; *
02C7   409 ; *  TEST CASE NAME:              SFSTM20
02C7   410 ; *
02C7   411 ; *  SYSTEM SERVICE:              SETIMR
02C7   412 ; *
02C7   413 ; *  ARGUMENT UNDER TEST:         DAYTIM_STM20
02C7   414 ; *
02C7   415 ; *  INPUT CONDITIONS:
02C7   416 ; *     EXPIRATION TIME AT LOCATION 0
02C7   417 ; *
02C7   418 ; *  EXPECTED RESULTS:
02C7   419 ; *     1) SYSTEM STATUS CODE:  ACCVIO
02C7   420 ; *     2) REGISTERS R2 THROUGH FP UNCHANGED
02C7   421 ; *
02C7   422 ; ********************************************************
02C7   423 ;--
02C7   424 ;
02C7   425         NEXT_TEST_CASE  SFSTM21
```

```
02D3   426 ;
02D3   427 ;++
02D3   428 ; ************************************************************
02D3   429 ; *
02D3   430 ; *  TEST CASE NAME:            SFSTM21
02D3   431 ; *
02D3   432 ; *  SYSTEM SERVICE:            SETIMR
02D3   433 ; *
02D3   434 ; *  ARGUMENT UNDER TEST:       DAYTIM_STM21
02D3   435 ; *
02D3   436 ; *  INPUT CONDITIONS:
02D3   437 ; *     EXPIRATION TIME IN NON-ACCESSIBLE PSECT
02D3   438 ; *
02D3   439 ; *  EXPECTED RESULTS:
02D3   440 ; *     1) SYSTEM STATUS CODE:  ACCVIO
02D3   441 ; *     2) REGISTERS R2 THROUGH FP UNCHANGED
02D3   442 ; *
02D3   443 ; ************************************************************
02D3   444 ;--
02D3   445 ;
02D3   446         NEXT_TEST_CASE  SFSTM22
```

```
02DF    447 ;
02DF    448 ;++
02DF    449 ; ********************************************************
02DF    450 ; *
02DF    451 ; *  TEST CASE NAME:              SFSTM22
02DF    452 ; *
02DF    453 ; *  SYSTEM SERVICE:              SETIMR
02DF    454 ; *
02DF    455 ; *  ARGUMENT UNDER TEST:         DAYTIM_STM22
02DF    456 ; *
02DF    457 ; *  INPUT CONDITIONS:
02DF    458 ; *     EXPIRATION TIME FIELD BEGINS IN ACCESSIBLE PSECT, ENDS
02DF    459 ; *       IN NON-ACCESSIBLE PSECT.
02DF    460 ; *
02DF    461 ; *  EXPECTED RESULTS:
02DF    462 ; *     1) SYSTEM STATUS CODE:  ACCVIO
02DF    463 ; *     2) REGISTERS R2 THROUGH FP UNCHANGED
02DF    464 ; *
02DF    465 ; ********************************************************
02DF    466 ;--
02DF    467 ;
02DF    468         TCEND
```

```
02E0   469          TC_GROUP        GTT,1,TS2
0307   470          NEXT_TEST_CASE  SFGTT10
```

```
0307   471 ;
0307   472 ;++
0307   473 ; ************************************************************
0307   474 ; *
0307   475 ; *  TEST CASE NAME:              SFGTT10
0307   476 ; *
0307   477 ; *  SYSTEM SERVICE:              GETTIM
0307   478 ; *
0307   479 ; *  ARGUMENT UNDER TEST:         TIMADR_GTT10
0307   480 ; *
0307   481 ; *  INPUT CONDITIONS:
0307   482 ; *     TIME OUTPUT FIELD AT LOCATION 1
0307   483 ; *
0307   484 ; *  EXPECTED RESULTS:
0307   485 ; *     1) SYSTEM STATUS CODE:  ACCVIO
0307   486 ; *     2) REGISTERS R2 THROUGH FP UNCHANGED
0307   487 ; *
0307   488 ; ************************************************************
0307   489 ;--
0307   490 ;
0307   491         NEXT_TEST_CASE  SFGTT11
```

```
0313   492 ;
0313   493 ;++
0313   494 ; ************************************************************
0313   495 ; *
0313   496 ; *  TEST CASE NAME:              SFGTT11
0313   497 ; *
0313   498 ; *  SYSTEM SERVICE:              GETTIM
0313   499 ; *
0313   500 ; *  ARGUMENT UNDER TEST:         TIMADR_GTT11
0313   501 ; *
0313   502 ; *  INPUT CONDITIONS:
0313   503 ; *     TIME OUTPUT FIELD IN READ/ONLY PSECT
0313   504 ; *
0313   505 ; *  EXPECTED RESULTS:
0313   506 ; *     1) SYSTEM STATUS CODE:  ACCVIO
0313   507 ; *     2) REGISTERS R2 THROUGH FP UNCHANGED
0313   508 ; *
0313   509 ; ************************************************************
0313   510 ;--
0313   511 ;
0313   512         NEXT_TEST_CASE  SFGTT12
```

```
                        ;
                        ;++
                        ; ************************************************************
                        ; *
                        ; *  TEST CASE NAME:              SFGTT12
                        ; *
                        ; *  SYSTEM SERVICE:              GETTIM
                        ; *
                        ; *  ARGUMENT UNDER TEST:         TIMADR_GTT12
                        ; *
                        ; *  INPUT CONDITIONS:
                        ; *     TIME OUTPUT FIELD BEGINS IN ACCESSIBLE PSECT, ENDS
                        ; *       IN NON-ACCESSIBLE PSECT.
                        ; *
                        ; *  EXPECTED RESULTS:
                        ; *     1) SYSTEM STATUS CODE:  ACCVIO
                        ; *     2) REGISTERS R2 THROUGH FP UNCHANGED
                        ; *
                        ; ************************************************************
                        ;--
                        ;
                            TCEND
```

```
0320   535          TC_GROUP        NMT,1,TS3
0347   536          NEXT_TEST_CASE  SFNMT10
```

```
0347   537 ;
0347   538 ;++
0347   539 ;*****************************************************
0347   540 ;*
0347   541 ;*  TEST CASE NAME:            SFNMT10
0347   542 ;*
0347   543 ;*  SYSTEM SERVICE:            NUMTIM
0347   544 ;*
0347   545 ;*  ARGUMENT UNDER TEST:       TIMBUF_NMT10
0347   546 ;*
0347   547 ;*  INPUT CONDITIONS:
0347   548 ;*     TIME BUFFER AT LOCATION 1
0347   549 ;*
0347   550 ;*  EXPECTED RESULTS:
0347   551 ;*     1) SYSTEM STATUS CODE:  ACCVIO
0347   552 ;*     2) REGISTERS R2 THROUGH FP UNCHANGED
0347   553 ;*
0347   554 ;*****************************************************
0347   555 ;--
0347   556 ;
0347   557         NEXT_TEST_CASE  SFNMT11
```

```
                                                H 14
0353    558 ;
0353    559 ;++
0353    560 ; ********************************************************
0353    561 ; *
0353    562 ; *  TEST CASE NAME:              SFNMT11
0353    563 ; *
0353    564 ; *  SYSTEM SERVICE:              NUMTIM
0353    565 ; *
0353    566 ; *  ARGUMENT UNDER TEST:         TIMBUF_NMT11
0353    567 ; *
0353    568 ; *  INPUT CONDITIONS:
0353    569 ; *     TIME BUFFER IN READ/ONLY PSECT
0353    570 ; *
0353    571 ; *  EXPECTED RESULTS:
0353    572 ; *     1) SYSTEM STATUS CODE:  ACCVIO
0353    573 ; *     2) REGISTERS R2 THROUGH FP UNCHANGED
0353    574 ; *
0353    575 ; ********************************************************
0353    576 ;--
0353    577 ;
0355    578         NEXT_TEST_CASE  SFNMT12
```

```
035F    579 ;
035F    580 ;++
035F    581 ; ********************************************************
035F    582 ; *
035F    583 ; *  TEST CASE NAME:            SFNMT12
035F    584 ; *
035F    585 ; *  SYSTEM SERVICE:            NUMTIM
035F    586 ; *
035F    587 ; *  ARGUMENT UNDER TEST:       TIMBUF_NMT12
035F    588 ; *
035F    589 ; *  INPUT CONDITIONS:
035F    590 ; *     TIME BUFFER BEGINS IN ACCESSIBLE PSECT, ENDS IN
035F    591 ; *       NON-ACCESSIBLE PSECT.
035F    592 ; *
035F    593 ; *  EXPECTED RESULTS:
035F    594 ; *     1) SYSTEM STATUS CODE:  ACCVIO
035F    595 ; *     2) REGISTERS R2 THROUGH FP UNCHANGED
035F    596 ; *
035F    597 ; ********************************************************
035F    598 ;--
035F    599 ;
035F    600         NEXT_TEST_CASE  SFNMT20
```

```
036B    601 ;
036B    602 ;++
036B    603 ; ********************************************************
036B    604 ; *
036B    605 ; *  TEST CASE NAME:            SFNMT20
036B    606 ; *
036B    607 ; *  SYSTEM SERVICE:            NUMTIM
036B    608 ; *
036B    609 ; *  ARGUMENT UNDER TEST:       TIMADR_NMT20
036B    610 ; *
036B    611 ; *  INPUT CONDITIONS:
036B    612 ; *     TIME VALUE AT LOCATION 0
036B    613 ; *
036B    614 ; *  EXPECTED RESULTS:
036B    615 ; *     1) SYSTEM STATUS CODE:  ACCVIO
036B    616 ; *     2) REGISTERS R2 THROUGH FP UNCHANGED
036B    617 ; *
036B    618 ; ********************************************************
036B    619 ;--
036B    620 ;
036B    621         NEXT_TEST_CASE  SFNMT21
```

```
                                K 14
0377   622 ;
0377   623 ;++
0377   624 ; ************************************************************
0377   625 ; *
0377   626 ; *  TEST CASE NAME:              SFNMT21
0377   627 ; *
0377   628 ; *  SYSTEM SERVICE:              NUMTIM
0377   629 ; *
0377   630 ; *  ARGUMENT UNDER TEST:         TIMADR_NMT21
0377   631 ; *
0377   632 ; *  INPUT CONDITIONS:
0377   633 ; *     TIME VALUE IN NON-ACCESSIBLE PSECT
0377   634 ; *
0377   635 ; *  EXPECTED RESULTS:
0377   636 ; *     1) SYSTEM STATUS CODE:  ACCVIO
0377   637 ; *     2) REGISTERS R2 THROUGH FP UNCHANGED
0377   638 ; *
0377   639 ; ************************************************************
0377   640 ;--
0377   641 ;
0377   642         NEXT_TEST_CASE  SFNMT22
```

```
                                L 14
0383   643 ;
0383   644 ;++
0383   645 ; ************************************************************
0383   646 ; *
0383   647 ; *  TEST CASE NAME:              SFNMT22
0383   648 ; *
0383   649 ; *  SYSTEM SERVICE:              NUMTIM
0383   650 ; *
0383   651 ; *  ARGUMENT UNDER TEST:         TIMADR_NMT22
0383   652 ; *
0383   653 ; *  INPUT CONDITIONS:
0383   654 ; *     TIME VALUE BEGINS IN ACCESSIBLE PSECT, ENDS
0383   655 ; *       IN NON-ACCESSIBLE PSECT.
0383   656 ; *
0383   657 ; *  EXPECTED RESULTS:
0383   658 ; *     1) SYSTEM STATUS CODE:  ACCVIO
0383   659 ; *     2) REGISTERS R2 THROUGH FP UNCHANGED
```

```
                                                M 14
0383    661 ; *
0383    662 ; **********************************************************
0383    663 ;--
0383    664 ;
0383    665         NEXT_TEST_CASE  SFNMT23
```

```
038F    666 ;
038F    667 ;++
038F    668 ; ******************************************************
038F    669 ; *
038F    670 ; *  TEST CASE NAME:            SFNMT23
038F    671 ; *
038F    672 ; *  SYSTEM SERVICE:            NUMTIM
038F    673 ; *
038F    674 ; *  ARGUMENT UNDER TEST:       TIMADR_NMT23
038F    675 ; *
038F    676 ; *  INPUT CONDITIONS:
038F    677 ; *     DELTA TIME VALUE EXCEEDS 9999 DAYS
038F    678 ; *
038F    679 ; *  EXPECTED RESULTS:
038F    680 ; *     1) SYSTEM STATUS CODE:  IVTIME
038F    681 ; *     2) REGISTERS R2 THROUGH FP UNCHANGED
038F    682 ; *
038F    683 ; ******************************************************
038F    684 ;--
038F    685 ;
038F    686         TCEND
```

```
0390   687 ;
0390   688
03B7   689 ;
03B7   690
```

```
        TC_GROUP        ATM,1,TS4

        NEXT_TEST_CASE  SFATM30
```

```
                                C 15
03B7   691 ;
03B7   692 ;++
03B7   693 ; ************************************************************
03B7   694 ; *
03B7   695 ; *  TEST CASE NAME:              SFATM30
03B7   696 ; *
03B7   697 ; *  SYSTEM SERVICE:              ASCTIM
03B7   698 ; *
03B7   699 ; *  ARGUMENT UNDER TEST:         TIMADR_ATM30
03B7   700 ; *
03B7   701 ; *  INPUT CONDITIONS:
03B7   702 ; *     DELTA TIME VALUE EXCEEDS 9999 DAYS
03B7   703 ; *
03B7   704 ; *  EXPECTED RESULTS:
03B7   705 ; *     1) SYSTEM STATUS CODE:  IVTIME
03B7   706 ; *     2) REGISTERS R2 THROUGH FP UNCHANGED
03B7   707 ; *
03B7   708 ; ************************************************************
03B7   709 ;--
03B7   710 ;
03B7   711 ;
03B7   712         TCEND
```

```
03B8    713          TC_GROUP        BTM,1,TS5
03DF    714 ;
03DF    715          NEXT_TEST_CASE  SFBTM10
```

```
03DF    716 ;
03DF    717 ;++
03DF    718 ; ************************************************************
03DF    719 ; *
03DF    720 ; *  TEST CASE NAME:              SFBTM10
03DF    721 ; *
03DF    722 ; *  SYSTEM SERVICE:              BINTIM
03DF    723 ; *
03DF    724 ; *  ARGUMENT UNDER TEST:         TIMBUF_BTM10
03DF    725 ; *
03DF    726 ; *  INPUT CONDITIONS:
03DF    727 ; *     INVALID ABSOLUTE TIME (YEAR SPECIFIED IS
03DF    728 ; *       EARLIER THAN SYSTEM BASE).
03DF    729 ; *
03DF    730 ; *  EXPECTED RESULTS:
03DF    731 ; *     1) SYSTEM STATUS CODE:  IVTIME
03DF    732 ; *     2) REGISTERS R2 THROUGH FP UNCHANGED
03DF    733 ; *
03DF    734 ; ************************************************************
03DF    735 ;--
03DF    736 ;
03DF    737 ;
03DF    738         NEXT_TEST_CASE  SFBTM11
```

```
03EB    739 ;
03EB    740 ;++
03EB    741 ; ********************************************************
03EB    742 ; *
03EB    743 ; *  TEST CASE NAME:              SFBTM11
03EB    744 ; *
03EB    745 ; *  SYSTEM SERVICE:              BINTIM
03EB    746 ; *
03EB    747 ; *  ARGUMENT UNDER TEST:         TIMBUF_BTM11
03EB    748 ; *
03EB    749 ; *  INPUT CONDITIONS:
03EB    750 ; *     INVALID ABSOLUTE TIME (MINUTES FIELD
03EB    751 ; *       OUT OF RANGE).
03EB    752 ; *
03EB    753 ; *  EXPECTED RESULTS:
03EB    754 ; *     1) SYSTEM STATUS CODE:  IVTIME
03EB    755 ; *     2) REGISTERS R2 THROUGH FP UNCHANGED
03EB    756 ; *
03EB    757 ; ********************************************************
03EB    758 ;--
03EB    759 ;
03EB    760 ;
03EB    761         NEXT_TEST_CASE  SFBTM12
```

```
03F7   762 ;
03F7   763 ;++
03F7   764 ; ************************************************************
03F7   765 ; *
03F7   766 ; *  TEST CASE NAME:              SFBTM12
03F7   767 ; *
03F7   768 ; *  SYSTEM SERVICE:              BINTIM
03F7   769 ; *
03F7   770 ; *  ARGUMENT UNDER TEST:         TIMBUF_BTM12
03F7   771 ; *
03F7   772 ; *  INPUT CONDITIONS:
03F7   773 ; *     INVALID ABSOLUTE TIME (NON-EXISTENT DATE).
03F7   774 ; *
03F7   775 ; *  EXPECTED RESULTS:
03F7   776 ; *     1) SYSTEM STATUS CODE:  IVTIME
03F7   777 ; *     2) REGISTERS R2 THROUGH FP UNCHANGED
03F7   778 ; *
03F7   779 ; ************************************************************
03F7   780 ;--
03F7   781 ;
03F7   782 ;
03F7   783         NEXT_TEST_CASE  SFBTM13
```

```
                                                H 15
0403    784 ;
0403    785 ;++
0403    786 ; ********************************************************
0403    787 ; *
0403    788 ; *  TEST CASE NAME:              SFBTM13
0403    789 ; *
0403    790 ; *  SYSTEM SERVICE:              BINTIM
0403    791 ; *
0403    792 ; *  ARGUMENT UNDER TEST:         TIMBUF_BTM13
0403    793 ; *
0403    794 ; *  INPUT CONDITIONS:
0403    795 ; *     INVALID DELTA TIME (HOURS FIELD
0403    796 ; *       OUT OF RANGE).
0403    797 ; *
0403    798 ; *  EXPECTED RESULTS:
0403    799 ; *     1) SYSTEM STATUS CODE:  IVTIME
0403    800 ; *     2) REGISTERS R2 THROUGH FP UNCHANGED
0403    801 ; *
0403    802 ; ********************************************************
0403    803 ;--
0403    804 ;
0403    805 ;
0403    806         TCEND
```

```
                        807 TS1:
0404    808             TESTSERV        SETIMR,ERR,SATS,                                        -
0404    809                                                                                     -
0404    810                 <1,EFN_STM,                                                         -
0404    811                             EFN_STM10,ILLEFC,       -  ; SFSTM10
0404    812                             EFN_STM11,ILLEFC,       -  ; SFSTM11
0404    813                             EFN_STM12,ILLEFC,       -  ; SFSTM12
0404    814                             EFN_STM13,ILLEFC,       -  ; SFSTM13
0404    815                             EFN_STM14,UNASEFC,      -  ; SFSTM14
0404    816                                                       >,                            -
0404    817                                                                                     -
0404    818                 <1,DAYTIM_STM,                                                      -
0404    819                             DAYTIM_STM20,ACCVIO,    -  ; SFSTM20
0404    820                             DAYTIM_STM21,ACCVIO,    -  ; SFSTM21
0404    821                             DAYTIM_STM22,ACCVIO,    -  ; SFSTM22
0404    822                                                       >,                            -
0404    823                                                                                     -
0404    824                 <1,ASTADR_STM,                                                      -
0404    825                                                       >,                            -
0404    826                                                                                     -
0404    827                 <1,REQIDT_STM,                                                      -
0404    828                                                       >,                            -
0404    829
06AA    830             TS_CLEANUP                  ; CLEAN UP & RETURN TO TEST_SERV_EXEC
```

```
06CA    831 TS2:
06CA    832             TESTSERV        GETTIM,ERR,SATS,                                        -
06CA    833                                                                                     -
06CA    834                <1,TIMADR_GTT,                                                       -
06CA    835                              TIMADR_GTT10,ACCVIO,    -  ; SFGTT10
06CA    836                              TIMADR_GTT11,ACCVIO,    -  ; SFGTT11
06CA    837                              TIMADR_GTT12,ACCVIO,    -  ; SFGTT12
06CA    838                                                      >,                             -
06CA    839
079D    840             TS_CLEANUP              ; CLEAN UP & RETURN TO TEST_SERV_EXEC
```

```
                                K 15
07BD    841 TS3:
07BD    842             TESTSERV        NUMTIM,ERR,SATS,                                -
07BD    843                                                                             -
07BD    844                <1,TIMBUF_NMT,                                               -
07BD    845                              TIMBUF_NMT10,ACCVIO,    -  ; SFNMT10
07BD    846                              TIMBUF_NMT11,ACCVIO,    -  ; SFNMT11
07BD    847                              TIMBUF_NMT12,ACCVIO,    -  ; SFNMT12
07BD    848                                                    >,                       -
07BD    849                                                                             -
07BD    850                <1,TIMADR_NMT,                                               -
07BD    851                              TIMADR_NMT20,ACCVIO,    -  ; SFNMT20
07BD    852                              TIMADR_NMT21,ACCVIO,    -  ; SFNMT21
07BD    853                              TIMADR_NMT22,ACCVIO,    -  ; SFNMT22
07BD    854                              TIMADR_NMT23,IVTIME,    -  ; SFNMT23
07BD    855                                                    >,                       -
07BD    856
0939    857             TS_CLEANUP                      ; CLEAN UP & RETURN TO TEST_SERV_EXEC
```

```
                     0959   858 TS4:
                     0959   859         TESTSERV        ASCTIM,ERR,SATS,                                -
                     0959   860                                                                         -
                     0959   861            <1,TIMLEN_ATM,                                           -
                     0959   862                                                    >,                -
                     0959   863                                                                         -
                     0959   864            <1,TIMBUF_ATM,                                           -
                     0959   865                                                    >,                -
                     0959   866                                                                         -
                     0959   867            <1,TIMADR_ATM,                                           -
                     0959   868                        TIMADR_ATM30,IVTIME,    - ; SFATM30
                     0959   869                                                    >,                -
                     0959   870                                                                         -
                     0959   871            <1,CVTFLG_ATM,                                           -
                     0959   872                                                    >,                -
                     0959   873
                     0BC7   874         TS_CLEANUP                  ; CLEAN UP & RETURN TO TEST_SERV_EXEC
```

```
0BE7   875 TS5:
0BE7   876          TESTSERV        BINTIM,ERR,SATS,                                -
0BE7   877                                                                          -
0BE7   878             <1,TIMBUF_BTM,                                               -
0BE7   879                          TIMBUF_BTM10,IVTIME,    -  ; SFBTM10
0BE7   880                          TIMBUF_BTM11,IVTIME,    -  ; SFBTM11
0BE7   881                          TIMBUF_BTM12,IVTIME,    -  ; SFBTM12
0BE7   882                          TIMBUF_BTM13,IVTIME,    -  ; SFBTM13
0BE7   883                                                    >,                    -
0BE7   884                                                                          -
0BE7   885             <1,TIMADR_BTM,                                               -
0BE7   886                                                    >,                    -
0BE7   887
0D4A   888          TS_CLEANUP                  ; CLEAN UP & RETURN TO TEST_SERV_EXEC
```

```
                     0D6A   889                .SBTTL  EXECUTE & CLEANUP
                     0D6A   890 EXECUTE:
                     0D6A   891                TEST_SERV_EXEC                  ; EXECUTE ALL T. CASES IN ALL GROUPS
                     0D9C   892 CLEANUP:
                0138 30      0D9C   893                BSBW    MOD_MSG_PRINT           ; PRINT TEST MODULE END MSG
00000044'EF  01  1C   01  F0 0D9F   894                INSV    #1,#STS$V_INHIB_MSG,#1,MOD_MSG_CODE
                     0DA8   895                                                ; INHIBIT PRINTING
                     0DA8   896                $EXIT_S MOD_MSG_CODE            ; EXIT TO OP SYS WITH MSG CODE
```

```
                        .SBTTL  TC_CONTROL
                ;++
                ; FUNCTIONAL DESCRIPTION:
                ;
                ;               THE TC_CONTROL SUBROUTINE IS CALLED BY THE TEST_SERV_EXEC
                ; MACRO TO EXECUTE A GROUP OF TEST CASES. A GROUP IS DEFINED BY A TC_GROUP
                ; MACRO. FOR EACH TC_GROUP MACRO, THERE IS A CORRESPONDING TESTSERV MACRO.
                ; TESTSERV CONTAINS CODE TO EXECUTE SYSTEM SERVICES AND CHECK THE RETURNED
                ; STATUS CODE VALUES. TESTSERV ARGUMENTS ARE CODED TO SPECIFY ALL THE SYSTEM
                ; SERVICE ARGUMENT VALUES AND THE EXPECTED STATUS CODE FOR EACH TEST CASE
                ; DEFINED BY A NEXT_TEST_CASE MACRO WITHIN THE GROUP. TC_CONTROL USES A
                ; CO-ROUTINE INTERFACE TO ENTER THE CODE OF THE APPROPRIATE TESTSERV MACRO
                ; IN VARIOUS PLACES. THE FIRST ENTRY OCCURS ONCE PER GROUP TO ALLOW TESTSERV
                ; TO DO SOME INITIALIZATION. THEN TWO ENTRIES ARE MADE FOR EACH TEST CASE IN
                ; THE GROUP. THE FIRST ALLOWS TESTSERV TO ISSUE THE SUBJECT SYSTEM SERVICE.
                ; THE SECOND ENTRY FOR THE TEST CASE CAUSES TESTSERV TO CHECK THE RETURNED
                ; STATUS CODE, PRINTING A FAILURE MESSAGE IF IT IS NOT THE EXPECTED CODE.
                ; IF THERE ARE NO MORE TEST CASES IN THE CURRENT GROUP, TESTSERV (NOT TC_CONTROL)
                ; RETURNS DIRECTLY TO TEST_SERV_EXEC (RSB ACTUALLY ISSUED IN TS_CLEANUP MACRO)
                ; FROM THIS SECOND ENTRY; OTHERWISE, CONTROL RETURNS TO TC_CONTROL WHICH
                ; IN TURN ENTERS TESTSERV AGAIN FOR THE NEXT TEST CASE. THE FAILURE OF A
                ; TEST CASE DOES NOT CAUSE TERMINATION OF THE TEST MODULE.
                ;
                ; CALLING SEQUENCE:
                ;
                ;       BSBW TC_CONTROL (ISSUED WITHIN THE TEST_SERV_EXEC MACRO)
                ;                       (RSB IS ISSUED WITHIN THE TS_CLEANUP MACRO)
                ;
                ; INPUT PARAMETERS:
                ;
                ;       NONE
                ;
                ; IMPLICIT INPUTS:
                ;
                ;       ARGUMENTS SPECIFIED ON EACH TESTSERV MACRO MAY BE VIEWED AS
                ;       INPUTS, SINCE TC_CONTROL AND TESTSERV ACT AS CO-ROUTINES.
                ;
                ; OUTPUT PARAMETERS:
                ;
                ;       SEVERITY CODE FIELD OF MOD_MSG_CODE (BITS 0,1,2) IS SET TO ERROR
                ;       IF ANY TEST CASE IN THE CURRENT GROUP FAILS; OTHERWISE IT REMAINS
                ;       SET TO SUCCESSFUL.
                ;
                ; IMPLICIT OUTPUTS:
                ;
                ;       %UETP-I-TEXT,   ERROR MESSAGES ARE WRITTEN TO SYS$OUTPUT BY
                ;                       THE TESTSERV MACRO (CO-ROUTINE WITH TC_CONTROL)
                ;
                ; COMPLETION CODES:
                ;
                ;       NONE
                ;
                ; SIDE EFFECTS:
                ;
                ;       NONE
                ;
                ;--
```

```
                                 0DB5   955
                                 0DB5   956
                                 0DB5   957
                                 0DB5   958 TC_CONTROL:
            00000064'EF   DD     0DB5   959          PUSHL   TS_EP                          ; PUSH TESTSERV ENTRY POINT
                          9E 16  0DB8   960          JSB     @(SP)+                        ; ENTER TESTSERV INITIALIZATION
                                 0DBD   961 10$:                                          ; PROCESS NEXT TEST CASE
          00000056'EF     20 90  0DBD   962          MOVB    #^A/ /,$$TSTN$$+2             ; MAKE SURE T.C. NAME HAS A BLANK
                      002F   30  0DC4   963          BSBW    REG_SAVE                      ; SAVE REGISTERS
                00000004'FF  16  0DC7   964          JSB     @CURRENT_TC                   ; JUMP TO CURRENT TEST CASE
                        0037   30  0DCD   965          BSBW    REG_REST                      ; RESTORE REGS FOR TESTSERV
                          9E   16  0DD0   966          JSB     @(SP)+                        ; LET TESTSERV ISSUE SYSTEM SERVICE
                        0042   30  0DD2   967          BSBW    REG_COMP                      ; COMPARE REGS TO SEE IF ...
                                 0DD5   968                                               ; ... SYSTEM SERVICE CHANGED ANY
                          9E   16  0DD5   969          JSB     @(SP)+                        ; LET TESTSERV CHEK S.S. STATUS CODE
          00000056'EF     2A   91  0DD7   970          CMPB    #^A/*/,$$TSTN$$+2             ; HAS TESTSERV INDICATED FAILURE ?
                          DD   12  0DDE   971          BNEQU   10$                           ; NO -- PROCESS NEXT TEST CASE
 00000060'EF    00000088'EF     DE  0DE0   972          MOVAL   TEST_MOD_FAIL,TMD_ADDR        ; YES -- INDICATE FAILED IN END MSG
00000044'EF    03   00    02     F0  0DEB   973          INSV    #ERROR,#0,#3,MOD_MSG_CODE     ; ADJUST STATUS CODE FOR ERROR
                          C7   11  0DF4   974          BRB     10$                           ; LOOP BAK TO PROCESS NEXT TEST CASE
                                 0DF6   975 ;
                                 0DF6   976 ;    TC_CONTROL RETURNS TO TEST_SERV_EXEC VIA TESTSERV (IN TS_CLEANUP MACRO)
                                 0DF6   977 ;
```

```
                                0DF6   979          .SBTTL  SUBROUTINES
                                0DF6   980 REG_SAVE:
                                0DF6   981 ;
                                0DF6   982 ;  ************************************************************************
                                0DF6   983 ;  *                                                                      *
                                0DF6   984 ;  *  SAVES R0 THRU SP IN REG_SAVE_AREA                                    *
                                0DF6   985 ;  *                                                                      *
                                0DF6   986 ;  ************************************************************************
                                0DF6   987 ;
                    7FFF 8F     BB 0DF6   988          PUSHR   #R0_THRU_SP                     ; SAVE ALL REGS ON STACK
    00000008'EF     6E    3C    28 0DFA   989          MOVC3   #60,(SP),REG_SAVE_AREA          ; SAVE REGS (BEFORE S.S.)
                    7FFF 8F     BA 0E02   990          POPR    #R0_THRU_SP                     ; CLEAN UP STACK
                                05 0E06   991          RSB                                     ; .... AND RETURN
                                0E07   992 ;
                                0E07   993 ;
                                0E07   994 ;
                                0E07   995 ;
                                0E07   996 REG_REST:
                                0E07   997 ;
                                0E07   998 ;
                                0E07   999 ;  ************************************************************************
                                0E07  1000 ;  *                                                                      *
                                0E07  1001 ;  *  RESTORES R0 THRU SP FROM REG_SAVE_AREA                               *
                                0E07  1002 ;  *                                                                      *
                                0E07  1003 ;  ************************************************************************
                                0E07  1004 ;
                    5E    3C    C2 0E07  1005          SUBL2   #60,SP                          ; MOVE SP TO MAKE ROOM FOR REGS
    6E  00000008'EF     3C    28 0E0A  1006          MOVC3   #60,REG_SAVE_AREA,(SP)          ; MOVE REGS ONTO STACK FOR POP
                    7FFF 8F     BA 0E12  1007          POPR    #R0_THR0_SP                     ; RESTORE ALL REGS FOR TESTSERV
                                05 0E16  1008          RSB                                     ; ... AND RETURN
```

```
                                E 16
                                0E17  1010 REG_COMP:
                                0E17  1011 ;
                                0E17  1012 ;  ************************************************************************
                                0E17  1013 ;  *                                                                      *
                                0E17  1014 ;  *  1) PUSHES ALL REGS ONTO STACK                                        *
                                0E17  1015 ;  *  2) COMPARES REGISTER IMAGES FROM STACK WITH CORRESPONDING             *
                                0E17  1016 ;  *        IMAGES FROM REG_SAVE_AREA FOR ALL REGISTERS SPECIFIED         *
                                0E17  1017 ;  *        IN REG_COMP_MASK.                                             *
                                0E17  1018 ;  *  3) FOR EACH UNEQUAL COMPARE, AN ERROR MESSAGE IS PRINTED             *
                                0E17  1019 ;  *        (USING $FAO AND $OUTPUT SYSTEM SERVICES).                     *
                                0E17  1020 ;  *  4) POPS ALL REGS OFF OF STACK                                        *
                                0E17  1021 ;  *                                                                      *
                                0E17  1022 ;  ************************************************************************
                                0E17  1023 ;
          7FFF 8F       BB      0E17  1024          PUSHR   #R0_THRU_SP                     ; SAVE ALL REGISTERS ON STACK
    56  00000008'EF      DE      0E1B  1025          MOVAL   REG_SAVE_AREA,R6                ; POINT R6 TO BEG OF ...
                                0E22  1026                                                  ; ... REGS (BEFORE S.S.)
            54    5E      D0      0E22  1027          MOVL    SP,R4                           ; POINT R4 TO BEG OF
                                0E25  1028                                                  ; ... REGS (AFTER S.S.)
            53    FF 8F     98      0E25  1029          CVTBL   #-1,R3                          ; INITIALIZE REG_COMP_MASK INDEX
                                0E29  1030 REG_COMP_NEXT:
                  53    D6      0E29  1031          INCL    R3                              ; POINT TO NEXT BIT IN MASK
            53    0F    91      0E2B  1032          CMPB    #15,R3                          ; END OF THE MASK ?
                  03    1A      0E2E  1033          BGTRU   REG_COMP_CONT                   ; NO -- CONTINUE
                009F    31      0E30  1034          BRW     REG_COMP_RSB                    ; YES -- GO TO COMMON RETURN
                                0E33  1035 REG_COMP_CONT:
            84    86    D1      0E33  1036          CMPL    (R6)+,(R4)+                     ; REG BEFORE = REG AFTER ?
                  F1    13      0E36  1037          BEQLU   REG_COMP_NEXT                   ; YES -- LOOK FOR NEXT REG
        E9 00000000'EF    53    E1      0E38  1038          BBC     R3,REG_COMP_MASK,REG_COMP_NEXT
                                0E40  1039                                                  ; NO -- GET NEXT IF BIT NOT SET
       00000048'EF      53    D0      0E40  1040          MOVL    R3,CLOB_REG_NO              ; NO -- GIVE REG NUMBER TO FAO
    0000004C'EF    FC A6    D0      0E47  1041          MOVL    -4(R6),REG_BEFORE_SS        ; GIVE "BEFORE" CONTENTS TO FAO
    00000050'EF    FC A4    D0      0E4F  1042          MOVL    -4(R4),REG_AFTER_SS         ; GIVE "AFTER" CONTENTS TO FAO
       00000056'EF    2A    90      0E57  1043          MOVB    #^A/*/,$$TSTN$$+2           ; GIVE FAILURE INDIC'N IN ERROR MSG
                                0E5E  1044 ;
                                0E5E  1045          $FAO_S  ERR_MSG_FAOCTL,OUTL,OUTD,$$SNAD$$,  -
                                0E5E  1046                  $$ASEQ$$,$$PSEQ$$,CLOB_REG_NO,REG_BEFORE_SS,REG_AFTER_SS
                                0E91  1047 ;
        F27C CF    F246 CF    B0      0E91  1048          MOVW    OUTL,OUTD                   ; ACTUAL OUTPUT LEN IN STRING DESC'R
                                0E98  1049          PUTMSG  <^"ETP$_TEXT,#1,#OUTD>      ; PRINT THE MSG
        F260 CF    0084 8F    B0      0EAD  1050          MOVW    #OUTE-OUTB,OUTL             ; GET MAX LEN BACK INTO DESCRIPTOR
       00000056'EF      20    90      0EB4  1051          MOVB    #^A/ /,$$TSTN$$+2           ; REMOVE FAIL INDIC'N FOR NEXT MSG
 00000060'EF    00000088'EF    DE      0EB8  1052          MOVAL   TEST_MOD_FAIL,MD_ADDR       ; INDICATE FAILED IN END MSG
00000044'EF    03    00    02    F0      0EC6  1053          INSV    #ERROR,#0,#3,MOD_MSG_CODE   ; ADJUST STATUS CODE FOR ERROR
                    FF57    31      0ECF  1054          BRW     REG_COMP_NEXT               ; GO LOOK FOR NEXT REG TO COMPARE
                                0ED2  1055 REG_COMP_RSB:
                  7FFF 8F    BA      0ED2  1056          POPR    #R0_THRU_SP                 ; CLEAN UP STACK
                                05      0ED6  1057          RSB                             ; RETURN TO CALLER
```

```
                                                F 16
                     0ED7  1059 MOD_MSG_PRINT:
                     0ED7  1060 ;
                     0ED7  1061 ;  ************************************************************************
                     0ED7  1062 ;  *                                                                      *
                     0ED7  1063 ;  *  PRINTS THE TEST MODULE BEGUN/SUCCESSFUL/FAILED MESSAGES              *
                     0ED7  1064 ;  *       (USING THE PUTMSG MACRO).                                      *
                     0ED7  1065 ;  *                                                                      *
                     0ED7  1066 ;  ************************************************************************
                     0ED7  1067 ;
                     0ED7  1068          PUTMSG  <MOD_MSG_CODE,#2,TMN_ADDR,TMD_ADDR> ; PRINT MSG
                  05 0EF2  1069          RSB                                         ; ... AND RETURN TO CALLER
                     0EF3  1070 ;
                     0EF3  1071 CHMRTN:
                     0EF3  1072 ;  ************************************************************
                     0EF3  1073 ;  *
                     0EF3  1074 ;  *     CHANGE MODE ROUTINE. THIS ROUTINE GETS CONTROL WHENEVER
                     0EF3  1075 ;  *     A CMKRNL, CMEXEC, OR CMSUP SYSTEM SERVICE IS ISSUED
                     0EF3  1076 ;  *     BY THE MODE MACRO ('TO' OPTION).  IT MERELY DOES
                     0EF3  1077 ;  *     A JUMP INDIRECT ON A FIELD SET UP BY MODE. IT HAS
                     0EF3  1078 ;  *     THE EFFECT OF RETURNING TO THE END OF THE MODE
                     0EF3  1079 ;  *     MACRO EXPANSION.
                     0EF3  1080 ;  *
                     0EF3  1081 ;  ************************************************************
                     0EF3  1082 ;
                0000 0EF3  1083          .WORD   0                                   ; ENTRY MASK
00000079'FF      17 0EF5  1084          JMP     @CHM_CONT                           ; RETURN TO MODE MACRO IN NEW MODE
                     0EFB  1085 ;
                     0EFB  1086 ;  *     RET INSTR WILL BE ISSUED IN EXPANSION OF 'MODE FROM, ....' MACRO
                     0EFB  1087 ;
                     0EFB  1088          .END    SATSSF04
```

```
$$$CHARS                = 00000048          PRIV_ARGS               = 00000002
$$$FIRSTTC$$$           = 00000000          PROT                      000000B1 R    02
$$$STRINGS              = 00000000          PRT$C_NA                  ********   X  02
$$ACT$$                   000000F3 R    06  PRVPRT                    00000070 R    03
$$ARG$$                   000000FB R    06  RO_THRU_SP              = 00007FFF
$$ASEQ$$                  000000EB R    06  REGS                      0000007D R    03
$$CALL$$                  000000DF R    06  REG_AFTER_SS              00000050 R    03
$$DISP$$                  000001E6 R    06  REG_BEFORE_SS             0000004C R    03
$$ERR$$                   000001A0 R    06  REG_COMP                  00000E17 R    06
$$EXP$$                   000000F7 R    06  REG_COMP_CONT             00000E33 R    06
$$INIT$$                  000000E3 R    06  REG_COMP_MASK             00000000 R    02
$$MAXP$$                = 00000005          REG_COMP_NEXT             00000E29 R    06
$$PSEQ$$                  000000EF R    06  REG_COMP_RSB              00000ED2 R    06
$$SNAD$$                  000000E7 R    06  REG_REST                  00000E07 R    06
$$T1                    = 00000004          REG_SAVE                  00000DF6 R    06
$$T2                    = 00000009          REG_SAVE_AREA             00000008 R    03
$$TSTN$$                  00000054 R    03  REQIDT_STM                000000CD R    02
ASTADR_STM              = 00000000          RETADR                    00000068 R    03
CHMRTN                    00000EF3 R    06  SATSSF04                  00000000 R    06
CHM_CONT                  00000079 R    03  SEVERE                  = 00000004
CLEANUP                   00000D9C R    06  SHR$K_SHRDEF            = 00000001
CLOB_REG_NO               00000048 R    03  SHR$_TEXT               = 00001130
CTL$GL_PRD                ********   X  06  SS$_ACCVIO                ********   X  06
CURRENT_TC                00000004 R    03  SS$_ILLEFC                ********   X  06
CVTFLG_ATM                00000107 R    02  SS$_IVTIME                ********   X  06
DAYTIM_STM                000000C5 R    02  SS$_UNASEFC               ********   X  06
DAYTIM_STM20            = 00000000          STS$V_INHIB_MSG         = 0000001C
DAYTIM_STM21              00000008 R    05  SUCCESS                 = 00000001
DAYTIM_STM22            = 000001FF R    04  SYS$ASCTIM                ********  GX  06
EFN_STM                   000000BD R    02  SYS$BINTIM                ********  GX  06
EFN_STM10                 000000C1 R    02  SYS$CMKRNL                ********  GX  06
EFN_STM11                 00000091 R    03  SYS$EXIT                  ********  GX  06
EFN_STM12                 00000095 R    03  SYS$FAO                   ********   X  06
EFN_STM13                 00000099 R    03  SYS$FAOL                  ********  GX  06
EFN_STM14                 0000009D R    03  SYS$GETTIM                ********  GX  06
EMPTY                     00000000 R    04  SYS$HIBER                 ********  GX  06
ERROR                   = 00000002          SYS$NUMTIM                ********  GX  06
ERR_MSG_FAOCTL            00000002 R    02  SYS$SETIMR                ********  GX  06
EXECUTE                   00000D6A R    06  SYS$SETPRN                ********  GX  06
GRP_TOTAL               = 00000005          SYS$SETPRT                ********  GX  06
INADR                     000000A9 R    02  SYS$SETPRV                ********  GX  06
INFO                    = 00000003          SYS$WAKE                  ********  GX  06
LIB$SIGNAL                ********   X  06  TC1                       00000241 R    06
MEXIT                   = 00000000          TC2                       000002E0 R    06
MOD_MSG_CODE              00000044 R    03  TC3                       00000320 R    06
MOD_MSG_PRINT             00000ED7 R    06  TC4                       00000390 R    06
NARGS                   = 0000000E          TC5                       000003B8 R    06
NOACCESS                  00000000 R    05  TCG_NO                  = 00000005
NSSARGS                 = 00000002          TC_CONTROL                00000DB5 R    06
ONES                      000000B5 R    02  TEST_MOD_BEG              00000077 R    02
OUTB                      0000011C R    06  TEST_MOD_FAIL             00000088 R    02
OUTD                      00000114 R    06  TEST_MOD_NAME             0000006E R    02
OUTE                      000001A0 R    06  TEST_MOD_NAME_D           0000008F R    02
OUTL                      000000DB R    06  TEST_MOD_SUCC             0000007D R    02
PCB$L_UIC               = 00000020          TIMADR_ATM                000000F7 R    02
PHD$Q_PRIVMSK           = 00000000          TIMADR_ATM30              000000FF R    02
PRIVMASK                  00000071 R    03  TIMADR_BTM                000000D9 R    03
```

```
                                                H 16
TIMADR_GTT                      000000A1  R     03
TIMADR_GTT10                =   00000001
TIMADR_GTT11                    000000D1  R     02
TIMADR_GTT12                =   000001FF  R     04
TIMADR_NMT                      000000E7  R     02
TIMADR_NMT20                =   00000001
TIMADR_NMT21                    00000010  R     05
TIMADR_NMT22                =   000001FF  R     04
TIMADR_NMT23                    000000EF  R     02
TIMBUF_ATM                      000000B9  R     03
TIMBUF_BTM                      0000010B  R     02
TIMBUF_BTM10                    0000012B  R     02
TIMBUF_BTM11                    0000014B  R     02
TIMBUF_BTM12                    0000016B  R     02
TIMBUF_BTM13                    0000018B  R     02
TIMBUF_NMT                      000000A9  R     03
TIMBUF_NMT10                =   00000001
TIMBUF_NMT11                    000000D9  R     02
TIMBUF_NMT12                =   000001FF  R     04
TIMLEN_ATM                      000000B7  R     03
TMD_ADDR                        00000060  R     03
TMN_ADDR                        0000005C  R     03
TPID                            00000000  R     03
TS1                             00000404  R     06
TS2                             000006CA  R     06
TS3                             000007BD  R     06
TS4                             00000959  R     06
TS5                             00000BE7  R     06
TS_EP                           00000064  R     03
TTNAME                          0000009F  R     02
UETP$_SATSMS                =   007480D9
UETP$_TEXT                  =   00741133
WARNING                     =   00000000
```

Psect synopsis

PSECT name	Allocation	PSECT No.	Attributes
. ABS .	00000000 (0.)	00 (0.)	NOPIC USR CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE
ABS	00000000 (0.)	01 (1.)	NOPIC USR CON ABS LCL NOSHR EXE RD WRT NOVEC BYTE
RODATA	000001A4 (420.)	02 (2.)	NOPIC USR CON REL LCL NOSHR NOEXE RD NOWRT NOVEC LONG
RWDATA	000000E1 (225.)	03 (3.)	NOPIC USR CON REL LCL NOSHR NOEXE RD WRT NOVEC BYTE
SATS_ACCVIO_1	00000200 (512.)	04 (4.)	NOPIC USR CON REL LCL NOSHR NOEXE RD WRT NOVEC PAGE
SATS_ACCVIO_2	00000200 (512.)	05 (5.)	NOPIC USR CON REL LCL NOSHR NOEXE RD WRT NOVEC PAGE
SATSSF04	00000EFB (3835.)	06 (6.)	NOPIC USR CON REL LCL NOSHR EXE RD WRT NOVEC LONG

Performance indicators

Phase	Page faults	CPU Time	Elapsed Time
Initialization	37	00:00:00.06	00:00:01.36
Command processing	136	00:00:00.79	00:00:06.42
Pass 1	485	00:00:15.45	00:00:32.79

Symbol table sort	2	00:00:00.68	00:00:01.08
Pass 2	281	00:00:04.01	00:00:10.19
Symbol table output	18	00:00:00.13	00:00:00.13
Psect synopsis output	2	00:00:00.03	00:00:00.03
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	963	00:00:21.15	00:00:52.01

The working set limit was 1650 pages.
80218 bytes (157 pages) of virtual memory were used to buffer the intermediate code.
There were 30 pages of symbol table space allocated to hold 347 non-local and 160 local symbols.
1088 source lines were read in Pass 1, producing 32 object records in Pass 2.
64 pages of virtual memory were used to define 48 macros.

+----------------------------+
! Macro library statistics !
+----------------------------+

Macro library name	Macros defined
_255DUA28:[SHRLIB]UETP.MLB;1	19
_255DUA28:[SYS.OBJ]LIB.MLB;1	0
_255DUA28:[SYSLIB]STARLET.MLB;2	23
TOTALS (all libraries)	42

975 GETS were required to define 42 macros.

There were no errors, warnings or information messages.

```
MACRO/LIS=LIS$:SATSSF04/OBJ=OBJ$:SATSSF04 MSRC$:SATSSF04/UPDATE=(ENH$:SATSSF04)+EXECML$/LIB+SHRLIB$:UETP/LIB
```

0417 AH-BT13A-SE
VAX/VMS V4.0

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SATSSF02
LIS

SATSSF03
LIS

SATSSF04
LIS

SATSSF05
LIS